

PTO/SB/08a (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

1

of

27

**Complete if Known**

Application Number

10/080,979

Filing Date

02/22/2002

First Named Inventor

Phillip Dan Cook

Art Unit

1635

Examiner Name

Amy Hudson Bowman

Attorney Docket Number

ISIS-5028

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
AKB	AA	US-3,687,808	08-29-1972	Merigan, Jr. et al.	
	AB	US-4,605,735	08-12-1986	Miyoshi et al.	
	AC	US-4,689,320	08-25-1987	Kaji	
	AD	US-4,743,535	05-10-1988	Carrico	
	AE	US-4,806,463	02-21-1989	Goodchild et al.	
	AF	US-4,835,263	05-30-1989	Nguyen et al.	
	AG	US-4,904,582	02-27-1990	Tullis	
	AH	US-4,910,300	03-20-1990	Urdea et al.	
	AI	US-4,958,013	09-18-1990	Letsinger	
	AJ	US-5,015,733	05-14-1991	Smith et al.	
	AK	US-5,034,506	07-23-1991	Summerton et al.	
	AL	US-5,087,617	02-11-1992	Smith	
	AM	US-5,098,890	03-24-1992	Gewirtz et al.	
	AN	US-5,108,921	04-28-1992	Low et al.	
	AO	US-5,135,917	08-04-1992	Burch	
	AP	US-5,138,045	08-11-1992	Cook et al.	
	AQ	US-5,166,195	11-24-1992	Ecker	
	AR	US-5,194,428	03-16-1993	Agrawal et al.	
	AS	US-5,212,295	05-18-1993	Cook	
	AT	US-5,218,105	06-08-1993	Cook et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
AKB	AU	EP 0 251 283 A2	01-07-1998	Wakunaga		
	AV	WO 86/02929	05-22-1986	Life Technologies		
	AW	WO 89/02931	04-06-1989	Cetus Corp.		
	AX	WO 89/12060	12-14-1989	Benner		
	AY	WO 90/10448	09-20-1990	Genentech Inc.		
	AZ	WO 90/13300	11-15-1990	Biogen Inc.		
	BA	WO 91/00243	01-10-1991	Union Oil Co.		
	BB	WO 91/14696	10-03-1991	Gilead Sciences		
	BC	WO 91/15500	10-17-1991	Du Pont		
	BD	WO 92/05186	04-02-1992	Gilead Sciences		
	BE	WO 95/06659	03-09-1995	Isis Pharm.		

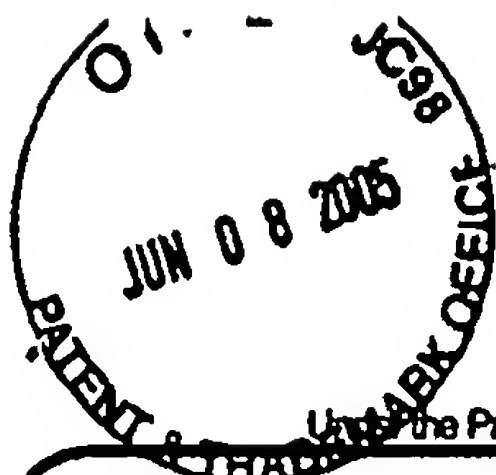
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7/26/05

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
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		Filing Date	02/22/2002		
		First Named Inventor	Phillip Dan Cook		
		Art Unit	1635		
		Examiner Name	Amy Hudson Bowman		
Sheet	2	of	27	Attorney Docket Number	ISIS-5028

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AHS	BF	US-5,223,618	06-29-1993	Cook et al.	
	BG	US-5,242,906	09-07-1993	Pagano et al.	
	BH	US-5,264,423	11-23-1993	Cohen et al.	
	BI	US-5,272,263	12-21-1993	Hession et al.	
	BJ	US-5,276,019	01-04-1994	Cohen et al.	
	BK	US-5,284,931	02-08-1994	Springer et al.	
	BL	US-5,286,717	02-15-1994	Cohen et al.	
	BM	US-5,324,654	06-28-1994	Bredesen	
	BN	US-5,378,825	01-03-1995	Cook et al.	
	BO	US-5,386,023	01-31-1995	Sanghvi et al.	
	BP	US-5,457,191	10-10-1995	Cook et al.	
	BQ	US-5,459,255	10-17-1995	Cook et al.	
	BR	US-5,466,786	11-14-1995	Buhr et al.	
	BS	US-5,470,967	11-28-1995	Huie et al.	
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	BU	US-5,510,239	04-23-1996	Baracchini et al.	
	BV	US-5,514,788	05-07-1996	Bennett et al.	
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	BX	US-5,539,082	07-23-1996	Nielsen et al.	
	BY	US-5,541,307	07-30-1996	Cook et al.	
	BZ	US-5,554,746	09-10-1996	Ravikumar et al.	
	CA	US-5,571,902	11-05-1996	Ravikumar et al.	
	CB	US-5,578,718	11-26-1996	Cook et al.	
	CC	US-5,580,969	12-03-1996	Hoke et al.	
	CD	US-5,585,479	12-17-1996	Hoke et al.	
	CE	US-5,587,361	12-24-1996	Cook et al.	
	CF	US-5,587,469	12-24-1996	Cook et al.	
	CG	US-5,587,470	12-24-1996	Cook et al.	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
AHS	CH	WO 96/02556	02-01-1996	Hybridon Inc.		

Examiner Signature		Date Considered	7/24/08
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	3	of	27
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**Complete if Known**

<b>Application Number</b>	10/080,979
<b>Filing Date</b>	02/22/2002
<b>First Named Inventor</b>	Phillip Dan Cook
<b>Art Unit</b>	1635
<b>Examiner Name</b>	Amy Hudson Bowman
<b>Attorney Docket Number</b>	ISIS-5028

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

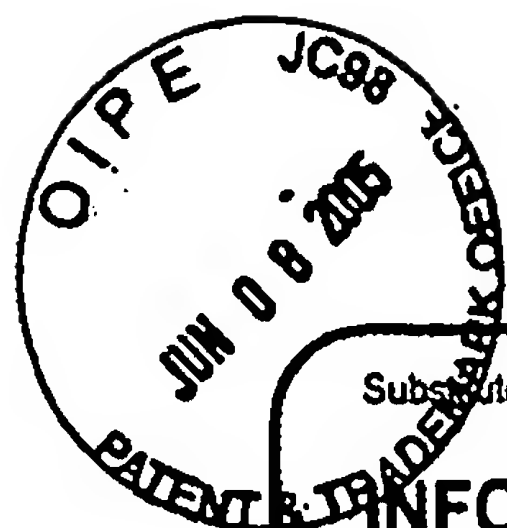
Date Considered

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 4 of 27

**Complete if Known**

Application Number	10/080,979
Filing Date	02/22/2002
First Named Inventor	Phillip Dan Cook
Art Unit	1635
Examiner Name	Amy Hudson Bowman
Attorney Docket Number	ISIS-5028

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
ADH	CS	ADAMS, D. H. et al., "Intercellular Adhesion Molecule 1 on Liver Allografts During Rejection," <i>Lancet</i> (1989) 334(8672): 1122-1125.	
	CT	AGARWAL, K. L. et al., "Synthesis and enzymatic properties of deoxyribooligonucleotides containing methyl and phenylphosphonate linkages," <i>Nucleic Acids Research</i> (1979) 6(9):3009-3024.	
	CU	AGRAWAL, S. et al., "Oligodeoxynucleoside phosphoramidates and phosphorothioates as inhibitors of human immunodeficiency virus," <i>Proc. Natl. Acad. Sci. USA</i> (1988) 85:7079-7083.	
	CV	AGRAWAL, S., "Functionalization of Oligonucleotides with Amino Groups and Attachment of Amino Specific Reporter Groups," <i>Methods in Molecular Biology</i> (1994) vol. 26, Chapter 3, Human Press Inc., Totowa, NJ, pp. 93-120.	
	CW	AGRIS, C. H. et al., "Inhibition of Vesicular Stomatitis Virus Protein Synthesis and Infection by Sequence-Specific Oligodeoxyribonucleoside Methylphosphonates," <i>Biochemistry</i> (1986) 25(20):6268-6275.	
	CX	AKHTAR, S. et al., "Cellular uptake and intracellular fate of antisense oligonucleotides," <i>Trends in Cell Biol.</i> (1992) 2: 139-144.	
	CY	ALAHARI, S. K. et al., "The fission yeast <i>prp4</i> <sup>+</sup> gene involved in pre-mRNA splicing codes for a predicted serine/threonine kinase and is essential for growth," <i>Nucl. Acids Res.</i> (1993) 21(17):4079-4083.	
	CZ	ANDERSON, D. C. et al., "Leukocyte Adhesion Deficiency: An Inherited Defect in the Mac-1, LFA-1, and p150,95 Glycoproteins," <i>Ann. Rev. Med.</i> (1987) 38: 175-194.	
	DA	ARNOTT, S. et al., "Optimized Parameters for A-DNA and B-DNA," <i>Biochemical and Biophysical Research Communication</i> (1972) 47(6):1504-1510.	
	DB	ASSELINE, U. et al., "Nucleic acid-binding molecules with high affinity and base sequence specificity: Intercalating agents covalently linked to oligodeoxynucleotides," <i>Proc. Natl. Acad. Sci. USA</i> (1984) 81:3297-3301.	
	DC	ASSELINE, U. et al., "Solid-Phase Preparation of 5',3'-Heterobifunctional Oligodeoxyribonucleotides Using Modified Solid Supports," <i>Tetrahedron</i> (1992) 48: 1233-1254.	
	DD	ATHERTON, E. et al., "The Fluorenylmethoxycarbonyl Amino Protecting Group," <i>The Peptides</i> (1987) Gross and Meienhofer (eds.), Academic Press, New York, vol. 9:1-38.	

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AMB	DE	BAKER, B.F., "Decapitation of a 5'-Capped Oligoribonucleotide by o-Phenanthroline: CU(II)," <i>J. Am. Chem. Soc.</i> (1993) 115(8):3378-3379.	
	DF	BALABAN, I. et al., "Bromo-derivatives of Glyoxaline," <i>Journal of Chemical Society</i> (1922) 121: 947-958.	
	DG	BEAUCAGE, S. L. et al., "Advances in the Synthesis of Oligonucleotides by the Phosphoramidite Approach," <i>Tetrahedron</i> (1992) 48(12):2223-2311.	
	DH	BEAUCAGE, S. et al., "Deoxynucleoside Phosphoramidites-A New Class of Key Intermediates for Deoxypolynucleotide Synthesis," <i>Tetrahedron Letters</i> (1981) 22(20): 1859-1862.	
	DI	BENNETT, C. F. et al., "Cationic Lipids Enhance Cellular Uptake and Activity of Phosphorothioate Antisense Oligonucleotides," <i>Mol. Pharm.</i> (1992) 41:1023-1033.	
	DJ	BERKOW, R. et al. (eds.), "Oncology," <i>The Merck Manual of Diagnosis and Therapy</i> (1987) 15th ed., Merck Sharp & Dohm Res. Lab., Rahway, NJ, pp. 1206-1228.	
	DK	BETEBENNER, D.A. et al., "Hepatobiliary Delivery of Polyaminopolycarboxylate Chelates: Synthesis and Characterization of a Cholic Acid Conjugate of EDTA and Biodistribution and Imaging Studies with Its Indium-111 Chelate," <i>Bioconjugate Chem.</i> (1991) 2(2):117-123.	
	DL	BEVILACQUA, M. P. et al., "Endothelial Leukocyte Adhesion Molecule 1: An Inducible Receptor for Neutrophils Related to Complement Regulatory Proteins and Lectins," <i>Science</i> (1989) 243: 1160-1165.	
	DM	BEVILACQUA, M. P. et al., "Identification of an inducible endothelial-leukocyte adhesion molecule," <i>Proc. Natl. Acad. Sci. USA</i> (1987) 84:9238-9242.	
	DN	BHAT, C., "2-Deoxy-3,5-di-O-p-toluoyl-D-erythro-pentosyl Chloride," <i>Synthetic Procedures in Nucleic Acid Chemistry</i> (1968) Zorbach, W. W. and Tipson, R. S. (eds.), Interscience Publishers, New York, pp. 521-522.	
	DO	BHAT, V. et al., "A Simple and Convenient Method for the Selective N-Acylation of Cytosine Nucleosides," <i>Nucleosides &amp; Nucleotides</i> (1989) 8(2): 179-183.	
	DP	BIGGADIKE, K. et al., "Short convergent route to homochiral carbocyclic 2'-deoxynucleosides and carbocyclic ribonucleosides," <i>J. Chem. Soc. Chem. Comm.</i> (1987):1083-1084.	
	DQ	BISCHOFF, R. et al., "Introduction of 5'-Terminal Functional Groups into Synthetic Oligonucleotides for Selective Immobilization," <i>Anal. Biochem.</i> (1987) 164: 336-344.	

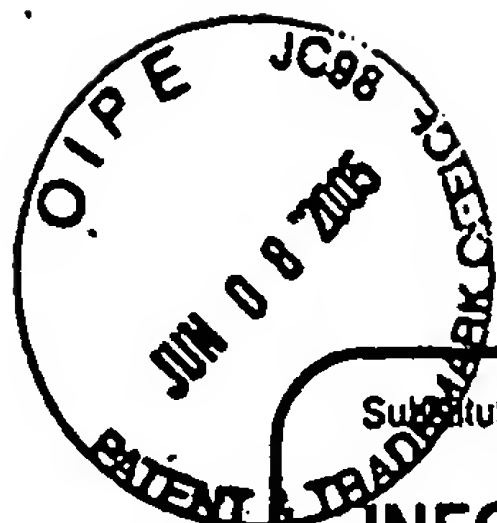
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ATHB	DR	BLACKBURN, G. et al., "Studies in Phosphorylation. Part XXIX. The Synthesis of Dialkyl Phosphates from Monoalkyl Phosphonates: Direct Oxidative Esterification," <i>J. Chem. Soc.</i> (1966): 239-245.	
	DS	BLUM, H. et al., "Inhibition of Hepatitis B Virus by Antisense Oligodeoxynucleotides," <i>Lancet</i> (1991) 337(8751): 1230.	
	DT	BOCHNER, B.S. et al., "Adhesion of Human Basophils, Eosinophils, and Neutrophils to Interleukin 1-activated Human Vascular Endothelial Cells: Contributions of Endothelial Cell Adhesion Molecules," <i>J. Exp. Med.</i> (1991) 173:1553-1556.	
	DU	BOUTORIN, A.S. et al., "Synthesis of alkylating oligonucleotide derivatives containing cholesterol or phenazinium residues at their 3'-terminus and their interaction with DNA within mammalian cells," <i>FEBS Letts.</i> (1989) 254(1,2):129-132.	
	DV	BRADLEY, G. et al., "P-glycoprotein, multidrug resistance and tumor progression," <i>Cancer Metastasis Rev.</i> (1994) 13: 223-233.	
	DW	BRANCH, A. D., "A Hitchhiker's Guide to Antisense and Nonantisense Biochemical Pathways," <i>Hepatology</i> (1996) 24(6): 1517-1529.	
	DZ	BRIGSTOCK, D. R. et al., "Species-Specific High Molecular Weight Forms of Basic Fibroblast Growth Factor," <i>Growth Factors</i> (1990) 4: 45-52.	
	EA	BRILL, W. K.-D. et al., "Synthesis of Oligodeoxynucleoside Phosphorodithioates via Thioamidites," <i>J. Am. Chem. Soc.</i> (1989) 111:2321-2322.	
	EB	BUTKE, G. et al., "Facile Synthesis of 2'-Amino-2'-Deoxyadenosine," <i>J. Carbohydrates Nucleosides &amp; Nucleotides</i> (1980) 7(1): 63-75.	
	EC	BUTKE, G. et al., "Facile Synthesis of 2'-Amino-2'-deoxynucleoside from the Corresponding Arabino Derivative," <i>Nucleic Acid Chemistry</i> (1986) Part 3, Townsend, L.B. et al. (Eds.), John Wiley and Sons, New York, 149-152.	
	ED	CALVO-MATEO, A. et al., "3'-C-Cyano-3'-Deoxythymidine," <i>Tetrahedron Letters</i> (1988) 29(8): 941-944.	
✓	EE	CAMPBELL, I. L. et al., "Intercellular adhesion molecule 1 is induced on isolated endocrine islet cells by cytokines but not by reovirus infection," <i>Proc. Natl. Acad. Sci. USA</i> (1989) 86:4282-4256.	

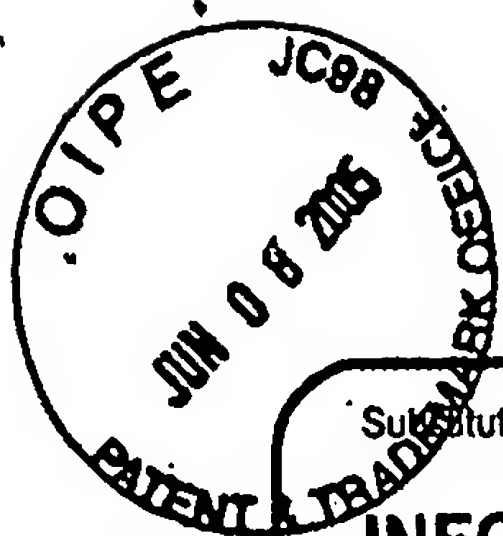
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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of

27

**Complete if Known**

Application Number	10/080,979
Filing Date	02/22/2002
First Named Inventor	Phillip Dan Cook
Art Unit	1635
Examiner Name	Amy Hudson Bowman
Attorney Docket Number	ISIS-5028

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CHB	EF	CARLOS, T. et al., "Human Monocytes Bind to Two Cytokine-Induced Adhesive Ligands on Cultured Human Endothelial Cells: Endothelial-Leukocyte Adhesion Molecule-1 and Vascular Cell Adhesion Molecule-1," <i>Blood</i> (1991) 77(10):2266-2271.	
	EG	CARUTHERS, M. H., "Synthesis of Oligonucleotides and Oligonucleotide Analogues," <i>Oligonucleotides. Antisense Inhibitors of Gene Expression</i> , Cohen, J. S., ed., CRC Press, Inc., Boca Raton (1989) pp 7-24.	
	EH	CASTLE, R. N. et al., "Imidazo[4,5-d]pyridazines. I. Synthesis of 4,7-Disubstituted Derivatives," <i>J. Org. Chem.</i> (1958) 23:1534-1538.	
	EI	CAZENAVE, C. et al., "Enzymatic amplification of translation inhibition of rabbit $\beta$ -globin mRNA mediated by anti-messenger oligodeoxynucleotides covalently linked to intercalating agents," <i>Nucl. Acids Res.</i> (1987) 15(12):4717-4736.	
	EJ	CHABNER, B. A. et al., "Reversal of Multidrug Resistance," <i>J. Clin. Oncol.</i> (1991) 9(1): 4-6.	
	EK	CHEN, C.-J. et al., "Genomic Organization of the Human Multidrug Resistance (MDR1) Gene and Origin of P-glycoproteins," <i>J. Biol. Chem.</i> (1990) 265(1):506-514.	
	EL	CHEN, S.-F. et al., "Mechanism of Action of the Novel Anticancer Agent 6-Fluoro-2-(2'-fluoro-1,1'-biphenyl-4-yl)-3-methyl-4-quinolinecarboxylic Acid Sodium Salt (NSC 368390): Inhibition of <i>de Novo</i> Pyrimidine Nucleotide Biosynthesis," <i>Cancer Res.</i> (1986) 46: 5014-5019.	
	EM	CHEN, C. et al., "Internal Duplication and Homology with Bacterial Transport Proteins in the <i>mdr1</i> (P-Glycoprotein) Gene from Multidrug-Resistant Human Cells," <i>Cell</i> (1986) 47: 381-389.	
	EN	CHEN, Y et al., "Studies on Fluoroalkylation and Fluoroalkoxylation. Part 33. Direct Trifluoromethylation of Aryl Halides with Fluorosulphonyldifluoromethyl Iodide in the Presence of Copper: an Electron Transfer Induced Process," <i>J. Chem. Soc. Perkin Transactions I</i> (1989) 2385-2387.	
	EO	CHIANG, M.-Y. et al., "Antisense Oligonucleotides Inhibit Intercellular Adhesion Molecule 1 Expression by Two Distinct Mechanisms," <i>J. Biol. Chem.</i> (1991) 266(27): 18162-18171.	
	EP	CHIRGWIN, J. M. et al., "Isolation of Biologically Active Ribonucleic Acid from Sources Enriched in Ribonuclease," <i>Biochemistry</i> (1979) 18(24):5294-5299.	
	EQ	CHOLLET, A., "Selective Attachment of Oligonucleotides to Interleukin-1 $\beta$ and Targeted Delivery to Cells," <i>Nucleosides &amp; Nucleotides</i> (1990) 9(7): 957-966.	

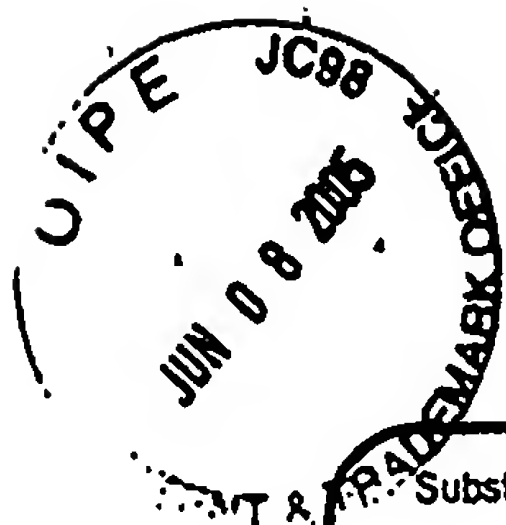
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Application Number	10/080,979
Filing Date	02/22/2002
First Named Inventor	Phillip Dan Cook
Art Unit	1635
Examiner Name	Amy Hudson Bowman
Attorney Docket Number	ISIS-5028

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AMB	ER	CHOU, T.-C. et al., "Quantitative Analysis of Dose-Effect Relationships: The Combined Effects of Multiple Drugs or Enzyme Inhibitors," <i>Adv. Enz. Regul.</i> (1984) 22: 27-55.	
	ES	CODINGTON, J. F. et al., "Nucleosides. XVIII. Synthesis of 2'-Fluorothymidine, 2'-Fluorodeoxyuridine, and Other 2'-Halogeno-2'-Deoxy Nucleosides," <i>J. Org. Chem.</i> (1964) 29: 558-564.	
*	ET	COHEN, J., in <i>Oligonucleotides: Antisense Inhibitors of Gene Expression</i> , CRC Press, Inc., Boca Raton, FL, 1989.	
	EU	CONSTANT, J. F. et al., "Heterodimeric Molecules Including Nucleic Acid Bases and 9-Aminoacridine. Spectroscopic Studies, Conformations and Interactions with DNA", <i>Biochemistry</i> (1988) 27(11):3997-4003.	
	EV	COOK, P. D. et al., "Synthesis and Antiviral and Enzymatic Studies of Certain 3-Deazaguanines and Their Imidazolecarboxamide Precursors," <i>J. Med. Chem.</i> (1978) 21(12):1212-1218.	
	EW	COONEY, M. et al., "Site-Specific Oligonucleotide Binding Represses Transcription of the Human c-myc Gene in Vitro," <i>Science</i> (1988) 241: 456-459.	
	EX	COREY, D. et al., "Generation of a Hybrid Sequence-Specific Single-Stranded Deoxyribonuclease," <i>Science</i> (1987) 238:1401-1403.	
	EY	COREY, D. et al., "Sequence-Selective Hydrolysis of Duplex DNA by an Oligonucleotide-Directed Nuclease," <i>J. Am. Chem. Soc.</i> (1989) 111(22):8523-8525.	
	EZ	CORRIAS, M. V. et al., "An Oligomer Complementary to the 5' End Region of MDR1 Gene Decreases Resistance to Doxorubicin of Human Adenocarcinoma-Resistant Cells," <i>Anticancer Res.</i> (1992) 12: 1431-1438.	
	FA	COSIMI, A. B. et al., "In Vivo Effects of Monoclonal Antibody to ICAM-1 (CD54) in Nonhuman Primates with Renal Allografts," <i>J. Immunol.</i> (1990) 144(12): 4604-4612.	
	FB	CROOKE, S. T. et al., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice," <i>J. Pharmacol Exp. Ther.</i> (1996) 277(2):923-937.	
	FC	CROOKE, S. T. et al., "Progress in the development and patenting of antisense drug discovery technology," <i>Exp. Opin. Ther. Patents</i> (1996) 6(9): 855-870.	

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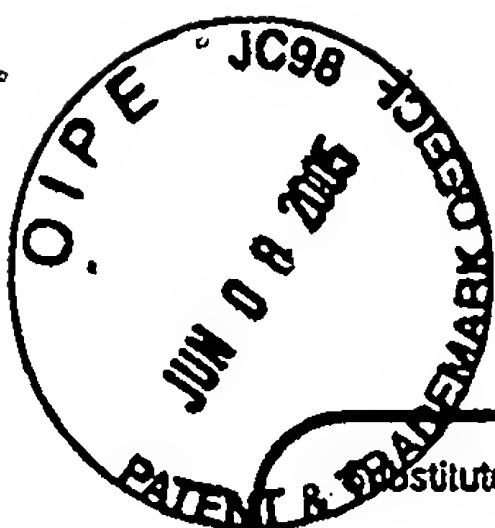
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>	
		<b>Application Number</b>	10/080,979
		<b>Filing Date</b>	02/22/2002
		<b>First Named Inventor</b>	Phillip Dan Cook
		<b>Art Unit</b>	1635
		<b>Examiner Name</b>	Amy Hudson Bowman
		<b>Attorney Docket Number</b>	ISIS-5028

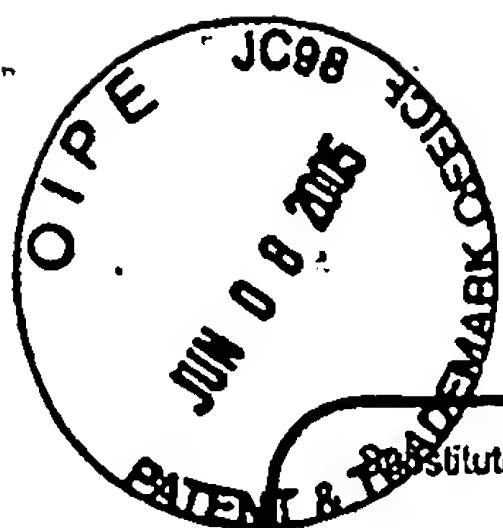
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ADB	FD	DAMHA, M. J. et al., "Solution and solid phase chemical synthesis of arabinonucleotides," <i>Can. J. Chem.</i> (1989) 67: 831-839.	
	FE	DAMHA, M. J. et al., "An improved procedure for derivatization of controlled-pore glass beads for solid-phase oligonucleotide synthesis," <i>Nucleic Acids Res.</i> (1990) 18(13): 3813-3821.	
	FG	DAVES, G. et al., "The Chemistry and Biochemistry of C-Nucleosides," <i>Progress in Medicinal Chemistry</i> (1976) 13: 304-349.	
	FH	DE SMIDT, P.C. et al., "Association of antisense oligonucleotides with lipoproteins prolongs the plasma half-life and modifies the tissue distribution," <i>Nucl. Acids Res.</i> (1991) 19(17):4695-4700.	
	FI	DE VIRGILIO, C. et al., "Cloning and Disruption of a Gene Required for Growth on Acetate but not on Ethanol: the Acetyl-Coenzyme A Synthetase Gene of <i>Saccharomyces cerevisiae</i> ," <i>Yeast</i> (1992) 8: 1043-1051.	
	FJ	DEAN, N. M. et al., "Inhibition of Protein Kinase C- $\alpha$ Expression in Human A549 Cells by Antisense Oligonucleotides Inhibits Induction of Intercellular Adhesion Molecule 1 (ICAM-1) mRNA by Phorbol Esters," <i>J. Biol. Chem.</i> (1994) 269(23): 16416-16424.	
	FK	DELGADO, C. et al., "The Uses and Properties of PEG-Linked Proteins," <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> (1992) 9(3,4):249-304.	
	FL	DINGWALL, C. et al., "Protein Import Into the Cell Nucleus," <i>Ann. Rev. Cell Biol.</i> (1986) 2: 367-390.	
	FM	DIVAKAR, K. J. et al., "4-(1,2,4-Triazol-1-yl)-and 4-(3-Nitro-1,2,4-triazol-1-yl)-1-( $\beta$ -D-2,3,5-tri-O-acetyl-arabinofuranosyl)pyrimidin-2(1H)-ones. Valuable Intermediates in the Synthesis of Derivatives of 1-( $\beta$ -D-Arabinofuranosyl)cytosine (Ara-C)," <i>J. Chem. Soc. Perkin Trans 1</i> (1982) 1171-1176.	
	FN	DIZIO, J. et al., "Progestin-Rhenium Complexes: Metal-Labeled Steroids with High Receptor Binding Affinity, Potential Receptor-Directed Agents for Diagnostic of Imaging or Therapy," <i>Bioconjugate Chem.</i> (1991) 2(5):353-366.	
	FO	DOAN, P. L. et al., "Sequence-targeted chemical modifications of nucleic acids by complementary oligonucleotides covalently linked to porphyrins," <i>Nucl. Acids Res.</i> (1987) 15(21):8643-8659.	
	FP	DREYER, G. et al., "Sequence-specific cleavage of single-stranded DNA: Oligodeoxynucleotide-EDTA-Fe(II)," <i>Proc. Natl. Acad. Sci. USA</i> (1985) 82:968-972. Correction (1985) 82: 3532.	

Examiner Signature	AH Bowman	Date Considered	7/26/05
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Sheet 10 of 27

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Application Number	10/080,979
Filing Date	02/22/2002
First Named Inventor	Phillip Dan Cook
Art Unit	1635
Examiner Name	Amy Hudson Bowman
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ADTB	FQ	DUSTIN, M. L. et al., "Lymphocyte Function-associated Antigen-1 (LFA-1) Interaction with Intercellular Adhesion Molecule-1 (ICAM-1) is One of At Least Three Mechanisms for Lymphocyte Adhesion to Cultured Endothelial Cells", <i>J. Cell Biol.</i> (1987) 107:321-331.	
	FR	ECKSTEIN, F. et al., "Polynucleotides Containing 2'-Chloro-2'-Deoxyribose," <i>Biochemistry</i> (1972) 11(23):4336-4344.	
	FS	EDER, P. S. et al., "Substrate Specificity and Kinetics of Degradation of Antisense Oligonucleotides by a 3' Exonuclease in Plasma," <i>Antisense Res. Dev.</i> (1991) 1: 141-151.	
	FT	EFFERTH, T. et al., "Modulation of P-Glycoprotein-Mediated Multidrug Resistance by Monoclonal Antibodies, Immunotoxins or Antisense Oligodeoxynucleotides in Kidney Carcinoma and Normal Kidney Cells," <i>Oncology</i> (1993) 50: 303-308.	
	FU	EGHOLM, M. et al., "Peptide Nucleic Acids (PNA). Oligonucleotide Analogues with an Achiral Peptide Backbone," <i>J. Am. Chem. Soc.</i> (1992) 114(5):1895-1897.	
	FV	ENGLISCH, U. et al., "Chemically Modified Oligonucleotides as Probes and Inhibitors," <i>Angew. Chem. Int. Ed. Eng.</i> (1991) 30(6):613-722.	
	FW	FAULL, R. J. et al., "Tubular Expression of Intercellular Adhesion Molecule-1 During Renal Allograft Rejection," <i>Transplantation</i> (1989) 48(2): 226-230.	
	FX	FERENTZ, A. E. et al., "Disulfide Cross-Linked Oligonucleotides," <i>J. Am. Chem. Soc.</i> (1991) 113(10): 4000-4002.	
	FY	FIDANZA, J. A. et al., "Site-Specific Labeling of DNA Sequences Containing Phosphorothioate Diesters," <i>J. Am. Chem. Soc.</i> (1992) 114(14):5509-5517.	
	FZ	FIDANZA, J. A. et al., "Use of a Thiol Tether for the Site-Specific Attachment of Reporter Groups to DNA," <i>J. Org. Chem.</i> (1992) 57(8): 2340-2346.	
	GA	FRENCH, T. J. et al., "Expression of Two Related Nonstructural Proteins of Bluetongue Virus (BTV) Type 10 in Insect Cells by a Recombinant Baculovirus: Production of Polyclonal Ascitic Fluid and Characterization of the Gene Product in BTV-Infected BHK Cells," <i>J. Virology</i> (1989) 63(8): 3270-3278.	
	GB	FRESKOS, J., "Synthesis of 2'-Deoxypyrimidine Nucleosides Via Copper (I) Iodide Catalysis," <i>Nucleosides &amp; Nucleotides</i> (1989) 8(5&6): 1075-1076.	
✓	GC	FROEHLER, B. et al., "Synthesis of DNA via deoxynucleoside H-phosphonate intermediates", <i>Nucleic Acids Research</i> (1986) 14(13): 5399-5407.	

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First Named Inventor	Phillip Dan Cook
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ADB	GD	FROHMAN, E. M. et al., "The induction of intercellular adhesion molecule 1 (ICAM-1) expression on human fetal astrocytes by interferon- $\gamma$ , tumor necrosis factor $\alpha$ , lymphotoxin, and interleukin-1: relevance to intracerebral antigen presentation," <i>J. Neuroimmunol</i> (1989) 23: 117-124.	
	GE	GAFFNEY, B. et al., "A New Strategy for the Protection of Deoxyguanosine During Oligonucleotide Synthesis," <i>Tetrahedron Letters</i> (1982) 23(22): 2257-2260.	
*	GF	GAIT, M. J., "Oligonucleotide Synthesis", IRL Press, 1985	
	GG	GAO, J. et al., "Cloning and Characterization of a Mouse Gene with Homology to the Human von Hippel-Lindau Disease Tumor Suppressor Gene: Implications for the Potential Organization of the Human von Hippel-Lindau Disease Gene," <i>Cancer Res.</i> (1995) 55: 743-747.	
	GH	GAUR, R. et al., "A simple method for the introduction of thiol group at 5'-termini of oligodeoxynucleotides," <i>Nucleic Acids Res.</i> (1989) 17(11): 4404.	
	GI	GELBERT, L. M. et al., "Analysis of GPT Activity in Mammalian Cells with a Chromosomally Integrated Shuttle Vector Containing Altered <i>gpt</i> Genes," <i>Som. Cell. Mol. Genet.</i> (1990) 16(2): 173-184.	
	GJ	GIBBS, W. W., "State of Shock: Sepsis can be fatal to firms as well as to patients," <i>Scientific American</i> (1994) Oct:133-134.	
	GK	GMEINER, W. H. et al., "Development of an Efficient Oligonucleotide Derivation Protocol," <i>Bioorg. Med. Chem. Letts.</i> (1991) 1(9): 487-490.	
	GL	GOLD, L. et al., "Translational Initiation," <i>Escherichia coli and Salmonella typhimurium: Cellular and Molecular Biology</i> (1987) American Society for Microbiology, Washington, D.C., 2: 1302-1307.	
	GM	GOODCHILD, J. et al., "Inhibition of human immunodeficiency virus replication by antisense oligodeoxynucleotides," <i>Proc. Natl. Acad. Sci. USA</i> (1988) 85: 5507-5511.	
	GN	GOODCHILD, J., "Conjugates of Oligonucleotides and Modified Oligonucleotides: A Review of Their Synthesis and Properties," <i>Bioconjugate Chemistry</i> (1990) 1(3):165-187.	
	GO	GOTTESMAN, M. M. et al., "The Multidrug Transporter, a Double-edged Sword," <i>J. Biol. Chem.</i> (1988) 263(25): 12163-12166.	

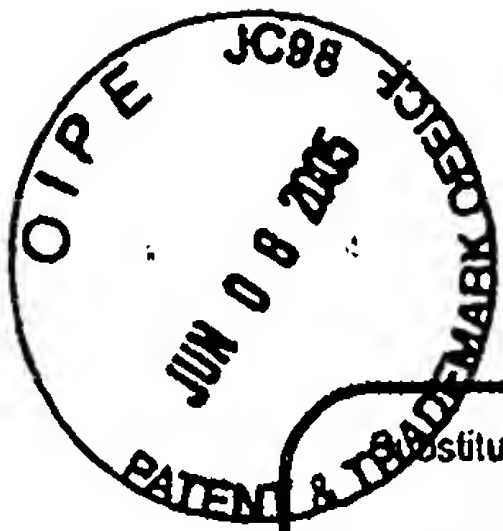
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		Application Number	10/080,979		
		Filing Date	02/22/2002		
		First Named Inventor	Phillip Dan Cook		
		Art Unit	1635		
		Examiner Name	Amy Hudson Bowman		
Sheet	12	of	27	Attorney Docket Number	ISIS-5028

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
UHB	GP	GRAHAM, M. J. et al., "Tritium labeling of antisense oligonucleotides by exchange with tritiated water," <i>Nucleic Acids Res.</i> (1993) 21(16): 3737-3743.	
	GQ	GREENE, T. W. et al., "Protection for the Carbonyl Group," <i>Protective Groups in Organic Synthesis</i> , 2nd ed., (1991) John Wiley & Sons, New York, pp. 178-223.	
	GR	GREENFIELD, L. et al., "Thiol-Containing Cross-Linking Agent with Enhanced Steric Hindrance," <i>Bioconjugate Chem.</i> (1990) 1(6): 400-410.	
	GS	GREVE, J. M. et al., "The Major Human Rhinovirus Receptor is ICAM-1," <i>Cell</i> (1989) 56: 839-847.	
	GT	GRIFFITHS, C. E. M. et al., "Keratinocyte Intercellular Adhesion Molecule-1 (ICAM-1) Expression Precedes Dermal T Lymphocytic Infiltration in Allergic Contact Dermatitis ( <i>Rhus dermatitis</i> )," <i>Am. J. Pathology.</i> (1989) 135(6): 1045-1053.	
	GU	GUERRA, F. I. et al., "Synthetic 6-Glucosyl Phospholipid as a Drug Transport System," <i>Tetrahedron Letters</i> (1987) 28(31): 3581-3584.	
	GV	GUSCHLBAUER, W. et al., "Nucleoside conformation is determined by the electronegativity of the sugar substituent," <i>Nucleic Acids Research</i> (1980) 8(6): 1421-1433.	
	GW	HALE, L. P. et al., "Immunohistologic Analysis of the Distribution of Cell Adhesion Molecules within the Inflammatory Synovial Microenvironment," <i>Arth. Rheum.</i> (1989) 32(1): 22-30.	
	GX	HANSSKE, F., "2'- and 3'-Ketonucleosides and their <i>Arabino</i> and <i>Xylo</i> Reduction Products," <i>Tetrahedron</i> (1984) 40: 125-135.	
	GY	HARALAMBIDIS, J. et al., "The Solid Phase Synthesis of Oligonucleotides Containing a 3'-Peptide Moiety," <i>Tetrahedron Letters</i> (1987) 28(43): 5199-5202.	
	GZ	HARALAMBIDIS, J. et al., "Preparation of base-modified nucleosides suitable for non-radioactive label attachment and their incorporation into synthetic oligodeoxyribonucleotides," <i>Nucleic Acids Research</i> (1987) 15(12): 4857-4876.	
	HA	HARLAN, J. M., "Leukocyte-Endothelial Interactions," <i>Blood</i> (1985) 65(3): 513-525.	
✓	HB	HARRIS, C. et al., "New Strategy for the Synthesis of Oligodeoxynucleotides Bearing Adducts at Exocyclic Amino Sites of Purine Nucleosides," <i>J. Am. Chem. Soc.</i> (1991) 113: 4328-4329.	

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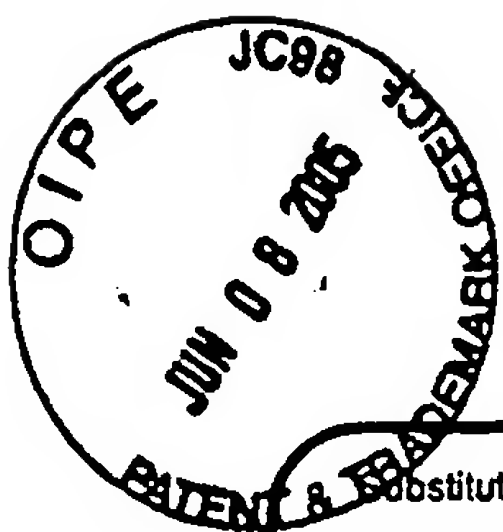
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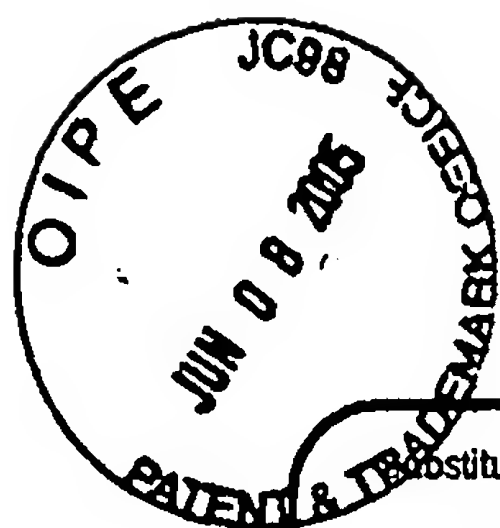
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AMC	HC	HAUG, C. E. et al., "A Phase I Trial of Immunosuppression with Anti-ICAM-1 (CD54) mAb in Renal Allograft Recipients," <i>Transplantation</i> (1993) 55(4): 766-773.	
	HD	HERTEL, L. W. et al., "Synthesis of 2-Deoxy-2,2-difluoro-D-ribose and 2-Deoxy-2,2-difluoro-D-ribofuranosyl Nucleosides," <i>J. Org. Chem.</i> (1988) 53(11): 2406-2409.	
	HE	HO, S. P. et al., "Potent antisense oligonucleotides to the human multidrug resistance-1 mRNA are rationally selected by mapping RNA-accessible sites with oligonucleotide libraries," <i>Nucl. Acids Res.</i> (1996) 24(10): 1901-1907.	
	HF	HO, V. C. et al., "Treatment of severe lichen planus with cyclosporine," <i>J. Am. Acad. Dermatol.</i> (1990) 22: 64-68.	
	HG	HOTODA, H. et al., "Biologically Active Oligodeoxyribonucleotides - II: Structure Activity Relationships of Anti-HIV-1 Pentadecadeoxyribonucleotides Bearing 5'-End-Modifications," <i>Nucleosides &amp; Nucleotides</i> (1994) 13(6&7): 1375-1395.	
	HI	IKEHARA, M. et al., "Polynucleotides. LII. Synthesis and properties of poly (2'-deoxy-2'-fluoroadenylic acid)," <i>Nucleic Acids Research</i> (1978) 5(6): 1877-1887.	
	HJ	IKEHARA, M. et al., "Studies of Nucleosides and Nucleotides-LXXXIX., Purine Cyclonucleosides. (43). Synthesis and Properties of 2'-Halogen-2'-deoxyguanosines," <i>Chem. Pharm. Bull.</i> (1981) 29(11): 3281-3285.	
	HK	IKEHARA, M. et al., "Polynucleotides. L. Synthesis and properties of poly (2'-chloro-2'-deoxyadenylic acid) and poly (2'-bromo-2'-deoxyadenylic acid)," <i>Nucleic Acids Research</i> (1977) 4(12): 4249-4260.	
	HL	IKEHARA, M. et al., "Polynucleotides. LVI. Synthesis and properties of poly(2'-deoxy-2'-fluoroinosinic acid)," <i>Nucleic Acids Research</i> (1978) 5(9): 3315-3324.	
	HM	IKEHARA, M. et al., "Studies of Nucleosides and Nucleotides-LXV," <i>Tetrahedron</i> (1975) 31: 1369-1372.	
	HN	IKEHARA, M. et al., "Studies of Nucleosides and Nucleotides. LXXXVII. Purine Cyclonucleosides. XLII. Synthesis of 2'-Deoxy-2'-fluoroguanosine," <i>Chem. Pharm. Bull.</i> (1981) 29(4): 1034-1038.	
✓	HO	IKEHARA, M. et al., "Studies of Nucleosides and Nucleotides-LXXIV," <i>Tetrahedron</i> (1978) 34: 1133-1138.	

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		First Named Inventor	Phillip Dan Cook		
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		Examiner Name	Amy Hudson Bowman		
Sheet	14	of	27	Attorney Docket Number	ISIS-5028

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ATHB	HP	IKEHARA, M., "Purine 8-Cyclonucleosides," <i>Accounts of Chemical Research</i> (1969) 2: 47-53.	
	HQ	IKEHARA, M. et al., "Studies of Nucleosides and Nucleotides. LXXIX. Purine Cyclonucleosides. (37). The Total Synthesis of an Antibiotic 2'-Amino-2'-deoxyguanosine," <i>Chem. Pharm. Bull.</i> (1978) 26: 240-244.	
	HR	IKEHARA, M. et al., "Studies of Nucleosides and Nucleotides. LXXXII. Cyclonucleosides. (39) Synthesis and Properties of 2'-Halogen-2'-deoxyadenosines," <i>Chem. Pharm. Bull.</i> (1978) 26: 2449-2453.	
	HS	ING, N. H. et al., "In vivo transcription of a progesterone-responsive gene is specifically inhibited by a triplex-forming oligonucleotide," <i>Nucleic Acids Res.</i> (1993) 21(12): 2789-2796.	
	HT	INOUE, H. et al., "Synthesis and hybridization studies on two complementary nona(2'-O-methyl)ribonucleotides," <i>Nucleic Acids Research</i> (1987) 15(15): 6131-6148.	
	HU	ISHIDA, Y. et al., "Multidrug Resistance in Cultured Human Leukemia and Lymphoma Cell Lines Detected by a Monoclonal Antibody, MRK16," <i>Jpn. J. Cancer Res.</i> (1989) 80: 1006-1013.	
	HV	ISOBE, M. et al., "Early Detection of Rejection and Assessment of Cyclosporine Therapy by <sup>111</sup> In Antimyosin Imaging in Mouse Heart Allografts," <i>Circulation</i> (1991) 84: 1246-1255.	
	HW	ISOBE, M. et al., "Specific Acceptance of Cardiac Allograft After Treatment with Antibodies to ICAM-1 and LFA-1," <i>Science</i> (1992) 255: 1125-1127.	
	HX	IYER, R. et al., "3H-1,2-Benzodithiole-3-one, 1,1-Dioxide as an Improved Sulfurizing Reagent in the Solid-Phase Synthesis of Oligodeoxyribonucleoside Phosphorothioates," <i>J. Am. Chem. Soc.</i> (1990) 112: 1253-1254.	
	HY	JABLONSKI, E. et al., "Preparation of oligodeoxynucleotide-alkaline phosphatase conjugates and their use as hybridization probes," <i>Nucleic Acid Research</i> (1986) 14(15): 6115-6128.	
	HZ	JÄGER, A. et al., "Oligonucleotide N-Alkylphosphoramidates: Synthesis and Binding to Polynucleotides," <i>Biochemistry</i> (1988) 27(19): 7237-7246.	
	JA	JAMES, W., "Towards gene-inhibition therapy: a review of progress and prospects in the field of antiviral antisense nucleic acids and ribozymes," <i>Antiviral Chem. Chemo.</i> (1991) 2(4): 191-214.	
	JB	JARVI, E. T. et al., "Synthesis and Biological Evaluation of Dideoxynucleosides Containing a Difluoromethylene unit," <i>Nucleosides &amp; Nucleotides</i> (1989) 8(5&6): 1111-1114.	

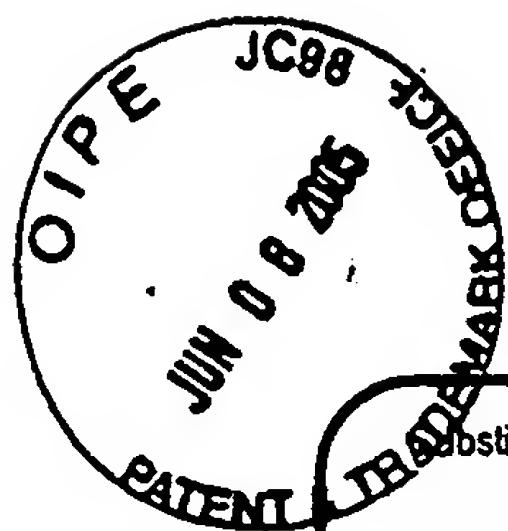
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 15 of 27

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Application Number	10/080,979
Filing Date	02/22/2002
First Named Inventor	Phillip Dan Cook
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AM	JC	JAYARAMAN, K. et al., "Selective inhibition of <i>Escherichia coli</i> protein synthesis and growth by nonionic oligonucleotides complementary to the 3' end of 16S rRNA," <i>Proc. Natl. Acad. Sci. USA</i> (1981) 78(3): 1537-1541.	
	JD	JONES, G. et al., "4'-Substituted Nucleosides. 5. Hydroxymethylation of Nucleoside 5'-Aldehydes," <i>J. Org. Chem.</i> (1979) 44(8): 1309-1317.	
	JE	JUBY, C. D. et al., "Facile Preparation of 3'Oligonucleotide-Peptide Conjugates," <i>Tetrahedron Letters</i> (1991) 32(7): 879-882.	
	JF	KABANOV, A. V. et al. "A new class of antivirals: antisense oligonucleotides combined with a hydrophobic substituent effectively inhibit influenza virus reproduction and synthesis of virus-specific proteins in MDCK cells," <i>FEBS Letts.</i> (1990) 259(2): 327-330.	
	JG	KAHAN, B. D. et al., "The Synergistic Interactions in vitro and in vivo of Brequinar Sodium with Cyclosporine or Rapamycin Alone and in Triple Combination," <i>Transplantation</i> (1993) 55(4): 894-900.	
	JH	KAJIJI, S. et al., "Structurally Distinct MDR Modulators Show Specific Patterns of Reversal against P-Glycoproteins Bearing Unique Mutations at Serine <sup>939/941</sup> ," <i>Biochemistry</i> (1994) 33(17): 5041-5048.	
	JI	KANAGASUNDARAM, V. et al., "Isolation and characterization of the gene encoding gluconolactonase from <i>Zymomonas mobilis</i> ," <i>Biochim. Biophys. Acta</i> (1992) 1171: 198-200.	
	JJ	KANE, S. E. et al., "A new vector using the human multidrug resistance gene as a selectable marker enables overexpression of foreign genes in eukaryotic cells," <i>Gene</i> (1989) 84: 439-446.	
	JK	KAZIMIERCZUK, Z. et al., "Synthesis of 2'-Deoxytubercidin, 2'-Deoxyadenosine, and Related 2'-Deoxynucleosides via a Novel Direct Stereospecific Sodium Salt Glycosylation Procedure," <i>J. Am. Chem. Soc.</i> (1984) 106(21): 6379-6382.	
	JL	KIBLER-HERZOG, L. et al., "Duplex stabilities of phosphorothioate, methylphosphonate, and RNA analogs of two DNA 14-mers," <i>Nucleic Acids Res.</i> (1991)19(11): 2979-2986.	
	JM	KIEHNTOFF, M. et al., "Ribozyme-mediated cleavage of the <i>MDR-1</i> transcript restores chemosensitivity in previously resistant cancer cells," <i>EMBO J.</i> (1994) 13(19): 4645-4652.	
	JN	KISHIMOTO, T. K. et al., "The Leukocyte Integrins," <i>Adv. Immunol.</i> (1989) 46: 149-182.	

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AMB	JO	KITAJIMA, I. et al., "Ablation of Transplanted HTLV-I Tax-Transformed Tumors in Mice by Antisense Inhibition of NF- $\kappa$ B," <i>Science</i> (1992) 258: 1792-1795.	
	JP	KNORRE, D. et al., "Complementary-Addressed (Sequence-Specific) Modification of Nucleic Acids," <i>Prog. Nucl. Acid Res. Mol. Biol.</i> (1985) 32: 291-321.	
	JQ	KOBAYASHI, H. et al., "Reversal of Drug Sensitivity in Multidrug-Resistant Tumor Cells by an MDR1 (PGY1) Ribozyme," <i>Cancer Res.</i> (1994) 54: 1271-1275.	
	JR	KOOLE, L. et al., "Synthesis of Phosphate-Methylated DNA Fragments Using 9-Fluorenylmethoxycarbonyl as Transient Base Protecting Group," <i>J. Org. Chem.</i> (1989) 54(7): 1657-1664.	
	JS	KRIEG, A. M. et al., "Modification of antisense phosphodiester oligonucleotides by a 5' cholesteryl moiety increases cellular association and improves efficacy," <i>Proc. Natl. Acad. Sci. USA</i> (1993) 90: 1048-1052.	
	JT	KRIEG, A. M. et al., "Uptake of Oligodeoxyribonucleotides by Lymphoid Cells Is Heterogeneous and Inducible," <i>Antisense Research and Development</i> (1991) 1: 161-171.	
	JU	LEMAITRE, M. et al., "Specific antiviral activity of a poly(L-lysine)-conjugated oligodeoxyribonucleotide sequence complementary to vesicular stomatitis virus N protein mRNA initiation site," <i>Proc. Natl. Acad. Sci. USA</i> (1987) 84: 648-652.	
	JV	LEONETTI, J. P. et al, "Biological Activity of OligonucleotidePoly(L-lysine) Conjugates: Mechanism of Cell Uptake," <i>Bioconjugate Chem.</i> (1990) 1(2): 149-153.	
	JW	LETSINGER, R. L. et al., "Effects of pendant groups at phosphorus on binding properties of d-ApA analogues," <i>Nucleic Acids Research</i> (1986) 14(8): 3487-3499.	
	JX	LETSINGER, R. L. et al., "Cholesteryl-conjugated oligonucleotides: synthesis, properties, and activity as inhibitors of replication of human immunodeficiency virus in cell culture," <i>Proc. Natl. Acad. Sci. USA</i> (1989) 86: 6553-6556.	
	JY	LISBY, S. et al., "Intercellular adhesion molecule-1 (ICAM-1) expression correlated to inflammation," <i>Br. J. Dermatol.</i> (1989) 120: 479-484.	
	JZ	LIU, J. et al., "Calcineurin Is a Common Target of Cyclophilin-Cyclosporin A and FKBP-FK506 Complexes," <i>Cell</i> (1991) 66: 807-815.	
✓	KA	LOOSE-MITCHELL, D., "Antisense nucleic acids as a potential class of pharmaceutical agents", <i>TIPS</i> (1988) 9: 45-47.	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/080,979		
		Filing Date	02/22/2002		
		First Named Inventor	Phillip Dan Cook		
		Art Unit	1635		
		Examiner Name	Amy Hudson Bowman		
Sheet	17	of	27	Attorney Docket Number	ISIS-5028

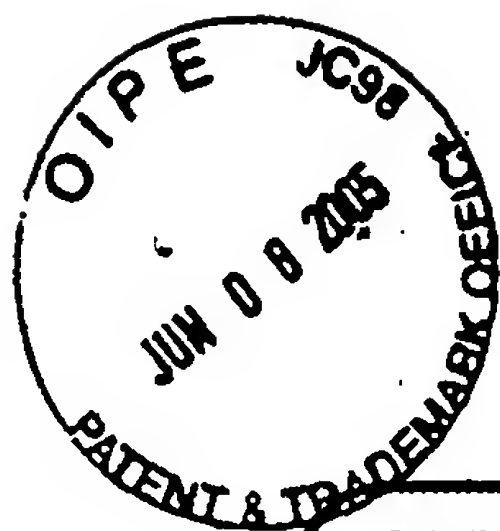
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
AMB	KB	MACKELLAR, C. et al., "Synthesis and physical properties of <i>anti</i> -HIV antisense oligonucleotides bearing terminal lipophilic groups," <i>Nucleic Acids Res.</i> (1992) 20(13): 3411-3417.	
	KC	MACMILLAN, A. et al., "Synthesis of Functionally Tethered Oligodeoxynucleotides by the Convertible Nucleoside Approach," <i>J. Org. Chem.</i> (1990) 55(24): 5931-5933.	
	KD	MANOHARAN, M. et al., "Cholic Acid-Oligonucleotide Conjugates for Antisense Applications," <i>Bioorganic Med. Chem. Letts.</i> (1994) 4(8): 1053-1060.	
	KE	MANOHARAN, M. et al., "Oligonucleotide Conjugates: Alteration of the Pharmacokinetic Properties of Antisense Agents," <i>Nucleosides &amp; Nucleotides</i> (1995) 14(3-5): 969-973.	
	KF	MANOHARAN, M. et al., "Chemical Modifications to Improve Uptake and Bioavailability of Antisense Oligonucleotides," <i>Antisense Strategies</i> , Baserga, R. and Denhardt, D. T. (eds.), The New York Academy of Sciences, New York, (1992) 660: 306-309.	
	KG	MANOHARAN, M. et al., "Introduction of a Lipophilic Thioether Tether in the Minor Groove of Nucleic Acids for Antisense Applications," <i>Bioorg. Med. Chem. Letts.</i> (1993) 3(12): 2765-2770.	
	KH	MANOHARAN, M. et al., "Lipidic Nucleic Acids," <i>Tetrahedron Letts.</i> (1995) 36(21): 3651-3654.	
	KI	MANOHARAN, M. et al., "Novel Functionalization of the Sugar Moiety of Nucleic Acids For Multiple Labeling in the Minor Groove," <i>Tetrahedron Letts.</i> (1991) 32(49): 7171-7174.	
	KJ	MARCUS-SEKURA, C. J., "Techniques for Using Antisense Oligodeoxyribonucleotides to Study Gene Expression," <i>Anal. Biochemistry</i> (1988) 172: 289-295.	
	KK	MARCUS-SEKURA, C. J. et al., "Comparative inhibition of chloramphenicol acetyltransferase gene expression by antisense oligonucleotide analogues having alkyl phosphotriester, methylphosphonate and phosphorothioate linkages," <i>Nucleic Acid Research</i> (1987) 15(14): 5749-5763.	
	KL	MARKIEWICZ, W. et al., "3',5'-O-(Tetraisopropylidisiloxane-1,3-diyl)ribonucleosides," <i>Nucleic Acid Chemistry</i> Townsend, L. and Tipson, R. S. (eds.) J. Wiley and Sons, New York (1986): 229-231.	
✓	KM	MARKUSSEN, F.-H. et al., "Translational control of <i>oskar</i> generates a Short OSK, the isoform that induces pole plasm assembly," <i>Development</i> (1995) 121: 3723-3732.	

Examiner Signature		Date Considered	7/16/05
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Sheet

18

of

27

**Complete if Known**

Application Number

10/080,979

Filing Date

02/22/2002

First Named Inventor

Phillip Dan Cook

Art Unit

1635

Examiner Name

Amy Hudson Bowman

Attorney Docket Number

ISIS-5028

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AMB	KN	MARLIN, S. D. et al., "A soluble form of intercellular adhesion molecule-1 inhibits rhinovirus infection," <i>Nature</i> (1990) 344: 70-72.	
	KO	MARTIN, P., "Ein neuer Zugang zu 2'-O-Alkylribonucleosiden und Eigenschaften deren Oligonucleotide," <i>Helvetica Chimica Acta</i> (1995) 78: 486-504.	
	KP	MATSUKURA, M. et al., "Phosphorothioate analogs of oligodeoxynucleotides: Inhibitors of replication and cytopathic effects of human immunodeficiency virus," <i>Proc. Natl. Acad. Sci. USA</i> (1987) 84: 7706-7710.	
	KQ	MCDERMOTT, J. B. et al., "Structure and lens expression of the gene encoding chicken $\beta$ A3/A1-crystallin," <i>Gene</i> (1992) 117: 193-200.	
	KR	MEYER, Jr., R. B. et al., "Efficient, Specific Cross-Linking and Cleavage of DNA by Stable, Synthetic Complementary Oligodeoxynucleotides," <i>J. Am. Chem. Soc.</i> (1989) 111(22):8517-9.	
	KS	MILLER, D. E. et al., "Cytokine modulation of intercellular adhesion molecule-1 surface expression of human melanoma cells; correlation with adhesion of peripheral blood leukocytes," <i>Proc. Am. Assoc. Cancer Res.</i> (1990) 31: 60, Abstract 353.	
	KT	MILLER, P. S. et al., "A new approach to chemotherapy based on molecular biology and nucleic acid chemistry: Matagen (masking tape for gene expression)," <i>Anti-Cancer Drug Des.</i> (1987) 2: 117-128.	
	KU	MILLER, P. S. et al., "Synthesis and Properties of Adenine and Thymine Nucleoside Alkyl Phosphotriesters, the Neutral Analogs of Dinucleoside Monophosphates," <i>J. Am. Chem. Soc.</i> (1971) 93(24): 6657-6665.	
	KV	MILLER, P. S. et al., "Nonionic Nucleic Acid Analogues. Synthesis and Characterization of Dideoxyribonucleoside Methylphosphonates," <i>Biochemistry</i> (1979) 18(23): 5134-5143.	
	KW	MILLER, P. S. et al., "Biochemical and Biological Effects of Nonionic Nucleic Acid Methylphosphonates," <i>Biochemistry</i> (1981) 20(7): 1874-1880.	
	KX	MIRABELLI, C. K. et al., "In vitro and in vivo pharmacologic activities of antisense oligonucleotides," <i>Anti-Cancer Drug Des.</i> (1991) 6: 647-661.	
	KY	MISHRA, R. K. et al., "Improved leishmanicidal effect of phosphorothioate antisense oligonucleotides by LDL-mediated delivery," <i>Biochim. et Biophysica</i> (1995) 1264: 229-237.	

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Date

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 19 of 27

**Complete if Known**

Application Number	10/080,979
Filing Date	02/22/2002
First Named Inventor	Phillip Dan Cook
Art Unit	1635
Examiner Name	Amy Hudson Bowman
Attorney Docket Number	ISIS-5028

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atb	KZ	MITCHELL, M. J. et al., "Boron trifluoride-methanol complex as a non-depurinating detritylating agent in DNA synthesis," <i>Nucleic Acids Res.</i> (1990) 18(17): 5321.	
	LA	MITSUNOBU, O., "The Use of Diethyl Azodicarboxylate and Triphenylphosphine in Synthesis and Transformation of Natural Products," <i>Synthesis</i> (1981): 1-28.	
	LB	MONACO, A. P. et al., "Studies on Heterologous Anti-Lymphocyte Serum in Mice", <i>J. Immunol.</i> (1966) 96(2): 229-238.	
	LC	MONACO, L. et al., "Structure of Two Rat Genes Coding for Closely Related Rolipram-sensitive cAMP Phosphodiesterases," <i>J. Biol. Chem.</i> (1994) 269(1): 347-357.	
	LD	MORI, K. et al., "Synthesis and Properties of Novel 5'-Linked Oligos," <i>Nucleosides &amp; Nucleotides</i> (1989) 8(5&6): 649-657.	
	LE	MORICE, W. G. et al., "Rapamycin-induced Inhibition of p34 <sup>cdc2</sup> Kinase Activation is Associated with G <sub>1</sub> /S-Phase Growth Arrest in T Lymphocytes," <i>J. Biol. Chem.</i> (1993) 268(5): 3734-3738.	
	LF	NAIR, V., "Development of Methodologies for the Strategic Modification of Purine Ribonucleoside Systems," <i>Nucleosides &amp; Nucleotides</i> (1989) 8(5&6): 699-708.	
	LG	NELSON, P. S. et al., "Bifunctional oligonucleotide probes synthesized using a novel CPG support are able to detect single base pair mutants," <i>Nucleic Acids Res.</i> (1989) 17(18): 7187-7194.	
	LH	NICKOLOFF, B. J. et al., "Accessory Cell Function of Keratinocytes for Superantigens," <i>J. Immunol.</i> (1993) 150(6): 2148-2159.	
	LI	NIELSEN, P. E. et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide," <i>Science</i> (1991) 254: 1497-1500.	
	LJ	OBERHAUSER, B. et al., "Effective incorporation of 2'-O-methyl-oligonucleotides into liposomes and enhanced cell association through modification with thiocholesterol," <i>Nucleic Acids Res.</i> (1992) 20(3): 533-538.	
	LK	OHTSUKA, I. et al., "Recognition by restriction endonuclease <i>EcoRI</i> of deoxyoctanucleotides containing modified sugar moieties," <i>Eur. J. Biochem.</i> (1984) 139: 447-450.	
✓	LL	OKAYASU, I. et al., "A Novel Method in the Induction of Reliable Experimental Acute and Chronic Ulcerative Colitis in Mice," <i>Gastroenterology</i> (1990) 98: 694-702.	

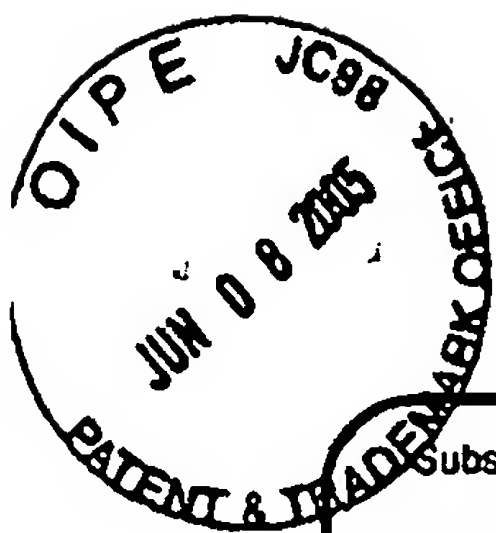
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Sheet 20

of 27

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Application Number	10/080,979
Filing Date	02/22/2002
First Named Inventor	Phillip Dan Cook
Art Unit	1635
Examiner Name	Amy Hudson Bowman
Attorney Docket Number	ISIS-5028

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AMB	LM	OLSEN, S. R. et al., "Inhibition of Protein Kinase-A by Overexpression of the Cloned Human Protein Kinase Inhibitor," <i>Mol. Endocrinol.</i> (1991) 5: 1246-1256.	
	LN	OSBORN, L. et al., "Direct Expression Cloning of Vascular Cell Adhesion Molecule 1, a Cytokine-Induced Endothelial Protein that Binds of Lymphocytes," <i>Cell</i> (1989) 59: 1203-1211.	
	LO	OUCHI, T. et al., "Synthesis and Antitumor Activity of Poly(Ethylene Glycol)s Linked to 5-Fluorouracil Via a Urethane or Urea Bond," <i>Drug Design and Discovery</i> (1992) 9: 93-105.	
	LP	OUTTEN, R. et al., "Synthetic 1-Methoxybenzo[d]naphtho[1,2-b]pyran-6-one C-Glycosides," <i>J. Org. Chem.</i> (1987) 52(22): 5064-5066.	
	LQ	PALFNER, K. et al., "Improvement of Hammerhead Ribozymes Cleaving <i>mdr-1</i> mRNA," <i>Biol. Chem. Hoppe-Seyler</i> (1995) 376: 289-295.	
	LR	PARKES, K. E. B. et al., "A Short Synthesis of 3'-Cyano-3'-Deoxythymidine", <i>Tetrahedron Letters</i> (1988) 29(24): 2995-2996.	
	LS	PERRI, S. et al., "Interactions of Plasmid-encoded Replication Initiation Proteins with the Origin of DNA Replication in the Broad Host Range Plasmid RK2," <i>J. Biol. Chem.</i> (1991) 266(19): 12536-12543.	
	LT	PETERSHEIM, M. et al., "Base-Stacking and Base-Pairing Contributions to Helix Stability: Thermodynamics of Double Helix Formation with CCGG, CCGGp, CCGGAp, ACCGGp, CCGGUp, and ACCGGUp," <i>Biochem.</i> (1983) 22(2): 256-263.	
	LU	PFITZNER, K. E. et al., "The Synthesis of Nucleoside-5' Aldehydes," <i>J. Am. Chem. Soc.</i> (1963) 85: 3027.	
	LV	PIDGEON, C. et al., "Synthesis and Liposome Encapsulation of Antisense Oligonucleotide-Intercalator Conjugates," <i>Annals New York Academy of Sciences</i> , 593-596.	
	LW	PUSHPA-REKA, T. R. et al., "Rat Phospholipid-hydroperoxide Glutathione Peroxidase," <i>J. Biol. Chem.</i> (1995) 270(45): 26993-26999.	
	LX	RAMIREZ, F. et al., "Nucleotidophospholipids: Oligonucleotide Derivatives with Membrane-Recognition Groups," <i>J. Am. Chem. Soc.</i> (1982) 104(20): 5483-5486.	
	LY	RANGANATHAN, R., "Modification of the 2'-Position of Purine Nucleosides: Synthesis of 2'- $\alpha$ -Substituted-2'-Deoxyadenosine Analogs," <i>Tetrahedron Letters</i> (1977) 15: 1291-1294.	

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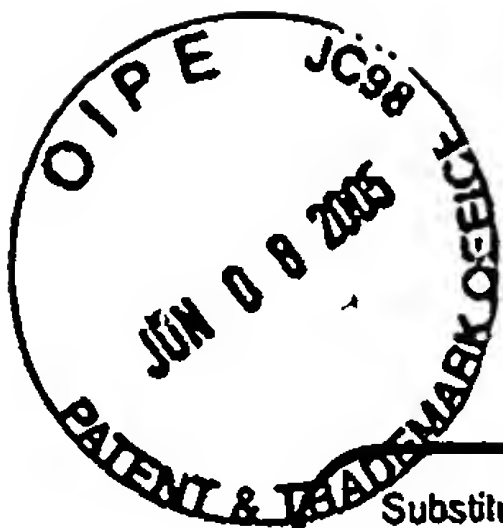
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AMB	LZ	RAVASIO, N. et al., "Selective Hydrogenation Promoted by Copper Catalysts. 1. Chemoselectivity, Regioselectivity, and Stereoselectivity in the Hydrogenation of 3-Substituted Steroids," <i>J. Org. Chem.</i> (1991) 56(13): 4329-4333.	
	MA	REED, M. W. et al., "Acridine- and Cholesterol-Derivatized Solid Supports for Improved Synthesis of 3'-Modified Oligonucleotides," <i>Bioconjugate Chem.</i> (1991) 2(4): 217-225.	
	MB	REVANKAR, G. R. et al., "Synthesis and Antiviral/Antitumor of Certain 3-Deazaguanine Nucleosides and Nucleotides," <i>J. Med. Chem.</i> (1984) 27(11): 1389-1396.	
	MC	RICE, G. E. et al., "An Inducible Endothelial Cell Surface Glycoprotein Mediates Melanoma Adhesion," <i>Science</i> (1989) 246: 1303-1306.	
	MD	RICE, G. E. et al., "Inducible Cell Adhesion Molecule 110 (INCAM-110) is an Endothelial Receptor for Lymphocytes," <i>J. Exp. Med.</i> (1990) 171: 1369-1374.	
	ME	RICHERT, N. D. et al., "Stability and Covalent Modification of P-Glycoprotein in Multidrug-Resistant KB Cells," <i>Biochemistry</i> (1988) 27(20): 7607-7613.	
	MF	ROBINS, M. et al, "Nucleic Acid Related Compounds. 46. A General Procedure for the Efficient Deoxygenation of Secondary Alcohols. Regiospecific and Stereoselective Conversion of Ribonucleosides to 2'-Deoxynucleosides," <i>J. Am. Chem. Soc.</i> (1983) 105(12): 4059-4065.	
	MG	ROELEN, H. C. P. F. et al., "Synthesis of nucleic acid methylphosphonothioates," <i>Nucleic Acid Research</i> (1988) 16(15): 7633-7645.	
	MH	ROGERS, R. P. et al., "Alternative splicing dictates translational start in Epstein-Barr virus transcripts," <i>EMBO J.</i> (1990) 9(7): 2273-2277.	
	MI	RONINSON, I. B., "The Role of the <i>MDR1</i> (P-Glycoprotein) Gene in Multidrug Resistance <i>In Vitro</i> and <i>In Vivo</i> ," <i>Biochem. Pharmacol.</i> (1992) 43(1): 95-102.	
	MJ	ROTHENBERG, M. et al., "Oligodeoxynucleotides as Anti-Sense Inhibitors of Gene Expression: Therapeutic Implications," <i>J. Natl. Cancer Inst.</i> (1989) 81(20): 1539-1544.	
	MK	RUBY, S. W. et al., "An Early Hierarchic Role of UI Small Nuclear Ribonucleoprotein in Spliceosome Assembly," <i>Science</i> (1988) 242: 1028-1035.	
	ML	SAISON-BEHMOARAS, T. et al., "Short modified antisense oligonucleotides directed against <i>Ha-ras</i> point mutation induce selective cleavage of the mRNA and inhibit T24 cells proliferation," <i>EMBO J.</i> (1991) 10(5): 1111-1118.	

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 22 of 27

**Complete if Known**

Application Number	10/080,979
Filing Date	02/22/2002
First Named Inventor	Phillip Dan Cook
Art Unit	1635
Examiner Name	Amy Hudson Bowman
Attorney Docket Number	ISIS-5028

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
AMB	MM	SAMBROOK, J. et al. (eds.), "Preparation of Radiolabeled DNA and RNA Probes," <i>Molecular Cloning: A Laboratory Manual</i> (1989) 2d. Ed., p. 10.59.	
	MN	SAUL, D. J. et al., "celB, a Gene Coding for a Bifunctional Cellulase from the Extreme Thermophile <i>Caldocellum saccharolyticum</i> ," <i>Applied &amp; Env. Microbiol.</i> (1990) 56: 3117-3124.	
	MO	SCANLON, K. J. et al., "Ribozyme-mediated reversal of the multidrug-resistant phenotype," <i>Proc. Natl. Acad. Sci. USA</i> (1994) 91: 11123-11127.	
	MP	SCHMIDT, R. R. et al., "C-Glycosides from O-Glycosyl Trichloroacetimidates," <i>Tetrahedron Letters</i> (1982) 23(4): 409-412.	
	MQ	SCHWARTZ, A. et al., "The DNA Bending by Acetylaminofluorene Residues and by Apurinic Sites," <i>J. Mol. Biol.</i> (1989) 207: 445-450.	
	MR	SEELA, F. et al., "Palindromic Octa- and Dodecanucleotides Containing 2'-Deoxytubercidin: Synthesis, Hairpin Formation, and Recognition by the Endodeoxyribonuclease <i>EcoRI</i> ," <i>Biochemistry</i> (1987) 26(8): 2232-2238.	
	MS	SHEA, R. et al., "Synthesis, hybridization properties and antiviral activity of lipid-oligodeoxynucleotide conjugates," <i>Nucleic Acids Res.</i> (1990) 18(13): 3777-3783.	
	MT	SHIBAHARA, S. et al., "Inhibition of human immunodeficiency virus (HIV-1) replication by synthetic oligo-RNA derivatives," <i>Nucleic Acids Research</i> (1987) 17(1): 239-252.	
	MU	SHIOHARA, T. et al., "Fixed Drug Eruption: Expression of Epidermal Keratinocyte Intercellular Adhesion Molecule-1 (ICAM-1)," <i>Arch. Dermatol.</i> (1989) 125: 1371-1376.	
	MV	SHOJI, Y. et al., "Mechanism of cellular uptake of modified oligodeoxynucleotides containing methylphosphonate linkages," <i>Nucleic Acids Res.</i> (1991) 19(20): 5543-5550.	
	MW	SIGMAN, D., "Nuclease Activity of 1,10-Phenanthroline-Copper Ion," <i>Acc. Chem. Res.</i> (1986) 19: 180-186.	
	MX	SIGMAN, D. S., "Chemical Nucleases," <i>Biochemistry</i> (1990) 29(39): 9097-9105.	
	MY	SIMONS, M. et al., "Antisense <i>c-myc</i> oligonucleotides inhibit intimal arterial smooth muscle cell accumulation <i>in vivo</i> ," <i>Nature</i> (1992) 359: 67-70.	

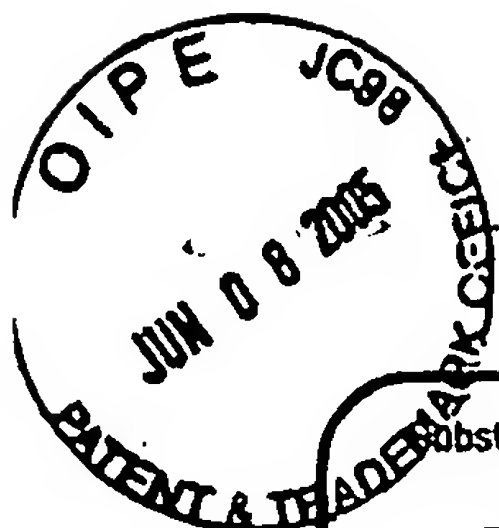
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AB	MZ	SINHA, N. D. et al., "The preparation and application of functionalized synthetic oligonucleotides: III. Use of H-phosphonate derivatives of protected amino-hexanol and mercapto-propanol or -hexanol," <i>Nucleic Acids Res.</i> (1988) 16(6): 2659-2669.	
	NA	SLUKA, J. et al., "Reagents and Methods for the Solid-Phase Synthesis of Protein-EDTA for Use in Affinity Cleaving," <i>J. Am. Chem. Soc.</i> (1990) 112(17): 6369-6374.	
	NB	SMITH, C. et al., "Antiviral effect of an oligo(nucleoside methylphosphonate) complementary to the splice junction of herpes simplex virus type 1 immediate early pre-mRNAs 4 and 5," <i>Proc. Natl. Acad. Sci. USA</i> (1986) 83: 2787-2791.	
	NC	SMITH-JONES, P. M. et al., "Antibody Labeling with Copper-67 Using the Bifunctional Macrocycle 4-[(1,4,8,11-Tetraazacyclotetradec-1-yl)methyl]benzoic Acid," <i>Bioconjugate Chem.</i> (1991) 2(6): 415-421.	
	ND	SOLOMONS, T. W. et al., <i>Organic Chemistry</i> (1980) John Wiley & Sons, New York, pp. 818-819.	
	NE	SPROAT, B. et al., "Highly efficient chemical synthesis of 2'-O-methyloligoribonucleotides and tetrabiotinylated derivatives; novel probes that are resistant to degradation by RNA or DNA specific nucleases," <i>Nucleic Acids Research</i> (1989) 17(9): 3373-3386.	
	NF	SPROAT, B. et al., "The synthesis of protected 5'-mercapto-2', 5'-dideoxyribonucleoside-3'-O-phosphoramidites; uses of 5'-mercapto-oligodeoxyribonucleotides," <i>Nucleic Acids Res.</i> (1987) 15(12): 4837-4848.	
	NG	SPROAT, B. S. et al., "New synthetic routes to protected purine 2'-O-methylriboside-3'-O-phosphoramidites using a novel alkylation procedure," <i>Nucleic Acids Research</i> (1990) 18: 41-49.	
	NH	STAUNTON, D. E. et al., "Primary Structure of ICAM-1 Demonstrates Interaction between Members of the Immunoglobulin and Integrin Supergene Families," <i>Cell</i> (1988) 52: 925-933.	
	NI	STAUNTON, D. E. et al., "A Cell Adhesion Molecule, ICAM-1, is the Major Surface Receptor for Rhinoviruses," <i>Cell</i> (1989) 56: 849-853.	
	NJ	STAUNTON, D. E. et al., "The Arrangement of the Immunoglobulin-like Domains of ICAM-1 and the Binding Sites for LFA-1 and Rhinovirus," <i>Cell</i> (1990) 61: 243-354.	
	NK	STEIN, C. et al., "Antisense Oligonucleotides as Therapeutic Agents-Is the Bullet Really Magical?" <i>Science</i> (1993) 261: 1004-1012.	
	NL	STEIN, C. A. et al., "Oligodeoxynucleotides as Inhibitors of Gene Expression: A Review," <i>Cancer Research</i> (1988) 48: 2659-2668.	

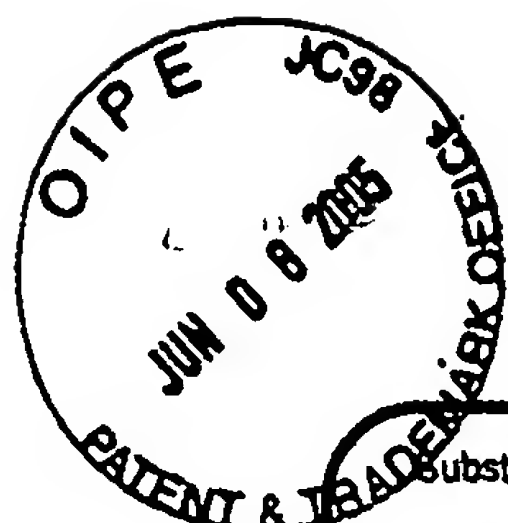
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Attorney Docket Number	ISIS-5028

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AtB	NM	STEIN, C. A. et al., "Physicochemical properties of phosphorothioate oligodeoxynucleotides," <i>Nucleic Acids Research</i> (1988) 16(8): 3209-3221.	
	NN	STUFKENS, D. J., "Dynamic Jahn-Teller Effect in the Excited States of SeCl <sub>6</sub> <sup>2-</sup> , SeBr <sub>6</sub> <sup>2-</sup> , TeCl <sub>6</sub> <sup>2-</sup> and TeBr <sub>6</sub> <sup>2-</sup> ," <i>Recueil</i> (1970) 89: 1185-1201.	
	NO	SUCIU, N. et al., "Synthesis of 9-(2,5-dideoxy-β-D-glycero-pent-4-enofuranosyl)adenine," <i>Carbohydrate Res.</i> (1975) 44: 112-115.	
	NP	SVINARCHUK, F. P. et al., "Inhibition of HIV proliferation in MT-4 cells by antisense oligonucleotide conjugated to lipophilic groups," <i>Biochimie</i> (1993) 75: 49-54.	
	NQ	TELSER, J. et al., "Synthesis and Characterization of DNA Oligomers and Duplexes Containing Covalently Attached Molecular Labels: Comparison of Biotin, Fluorescein, and Pyrene Labels by Thermodynamic and Optical Spectroscopic Measurements," <i>J. Am Chem. Soc.</i> (1989) 111(18): 6966-6976.	
	NR	THIERRY, A. R. et al., "Overcoming multidrug resistance in human tumor cells using free and liposomally encapsulated antisense oligodeoxynucleotides," <i>Biochem. Biophys. Res. Comm.</i> (1993) 190(3): 952-960	
	NS	TI, G. S. et al., "Transient Protection: Efficient One-Flask Synthesis of Protected Deoxynucleosides," <i>J. Am. Chem. Soc.</i> (1982) 104(5): 1316-1319.	
	NT	TIDD, D. M. et al., "Evaluation of N-ras oncogene anti-sense, sense and nonsense sequence methylphosphonate oligonucleotide analogues," <i>Anti-Cancer Drug Design</i> (1988) 3: 117-127.	
	NU	TSENG, B. et al., "Antisense oligonucleotide technology in the development of cancer therapeutics," <i>Cancer Gene Therapy</i> (1994) 1(1): 65-71.	
	NV	TWENTYMAN, P. R. et al., "A Comparison of Rhodamine 123 Accumulation and Efflux in Cells with P-Glycoprotein-mediated and MRP-associated Multidrug Resistance Phenotypes," <i>Eur. J. Cancer</i> (1994) 30A(9): 1360-1369.	
	NW	UESUGI, S. et al., "Improved Synthesis of 2'-Fluoro-2'-Deoxyadenosine and Synthesis and Carbon-13 NMR Spectrum of Its 3',5'-Cyclic Phosphate Derivative," <i>Nucleosides and Nucleotides</i> (1983) 2(4): 373-385.	
✓	NX	UESUGI, S. et al., "A Linear Relationship Between Electronegativity of 2'-Substituents and Conformation of Adenine Nucleosides," <i>Tetrahedron Letters</i> (1979) 42: 4073-4076.	

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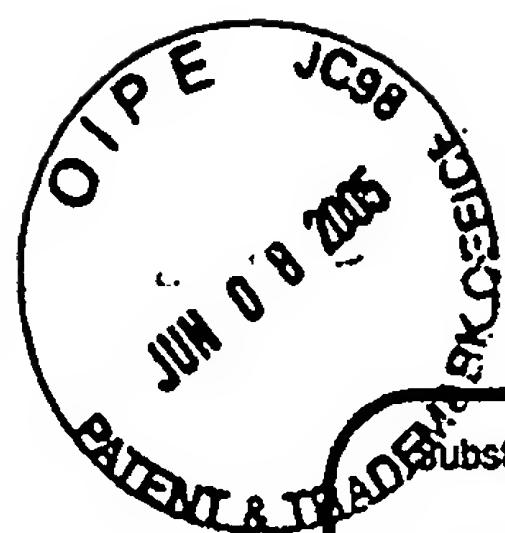
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First Named Inventor	Phillip Dan Cook
Art Unit	1635
Examiner Name	Amy Hudson Bowman
Attorney Docket Number	ISIS-5028

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AMB	NY	UHLMANN, E. et al, "Antisense Oligonucleotides: A New Therapeutic Principle," <i>Chem. Rev.</i> (1990) 90(4): 543-584.	
	NZ	VAN DER KROL, A. R. et al., "Modulation of Eukaryotic Gene Expression by Complementary RNA or DNA Sequences," <i>BioTechniques</i> (1988) 6(10): 958-973.	
	OA	VASANTHAKUMAR, G. et al., "Modulation of Drug Resistance in Daunorubicin Resistant Subline with Oligonucleoside Methylphosphonates," <i>Cancer Comm.</i> (1989) 1(4): 225-232.	
	OB	VASSEUR, J.-J. et al., "Oligonucleosides: Synthesis of a Novel Methylhydroxylamine-Linked Nucleosides Dimer and its Incorporation into Antisense Sequences," <i>J. Am. Chem. Soc.</i> (1992), 114: 4006-4007.	
	OC	VEBER, D. et al., "Isonicotinyloxycarbonyl, a Novel Amino Protecting Group for Peptide Synthesis," <i>J. Org. Chem.</i> (1977) 42(20): 3286-3288.	
	OD	WAGNER, D. et al., "Preparation and Synthetic Utility of Some Organotin Derivatives of Nucleosides," <i>J. Org. Chem.</i> (1974) 39(1): 24-30.	
	OE	WALDER, J., "Antisense DNA and RNA: progress and prospects," <i>Genes Dev.</i> (1988) 2:502-4.	
	OF	WALDER, R. et al., "Role of RNase H in hybrid-arrested translation by antisense oligonucleotides," <i>Proc. Natl. Acad. Sci. USA</i> (1988) 85: 5011-5015.	
	OG	WEETMAN, A. P. et al., "Expression of an intercellular adhesion molecule, ICAM-1, by human thyroid cells," <i>J. Endocrinol.</i> (1989) 122: 185-191.	
	OH	WEGNER, C. D. et al., "Intercellular Adhesion Molecule-1 (ICAM-1) in the Pathogenesis of Asthma," <i>Science</i> (1990) 247: 456-459.	
	OI	WEISS, R., "Upping the Antisense Ante: Scientists bet on profits from reverse genetics," <i>Science News</i> (1991) 139: 108-109.	
*	OJ	WEISSBERGER, A. ed., <u>The Chemistry of Heterocyclic Compounds, Imidazole and Derivatives</u> , Interscience, N.Y., 1953.	
	OK	WELLICOME, S. M. et al., "A Monoclonal Antibody that Detects A Novel Antigen on Endothelial Cells is Induced by Tumor Necrosis Factor, IL-1, or Lipopolysaccharide", <i>J. Immunol</i> (1990) 144(7): 2558-2565.	

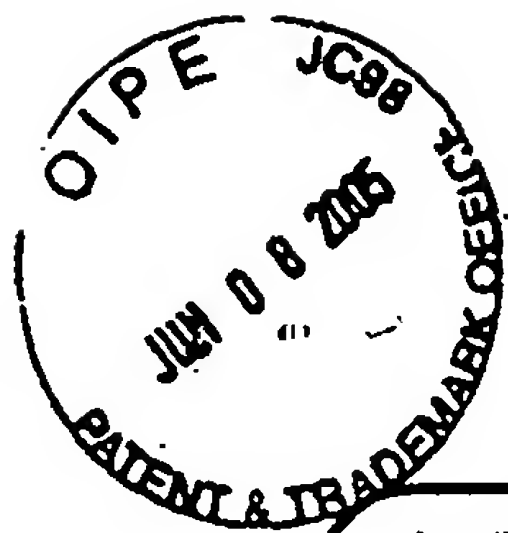
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PHB	OL	WESTERMANN, P. et al., "Inhibition of expression of SV40 virus large T-antigen by antisense oligodeoxyribonucleotides," <i>Biomed. Biochim. Acta</i> (1989) 48: 85-93.	
	OM	WU, T. et al., "Prevention of chain cleavage in the chemical synthesis of 2'-silylated oligoribonucleotides," <i>Nucleic Acids Res.</i> (1989) 17(9): 3501-3517.	
	ON	WYCHOWSKI, C. et al., "The Intranuclear Location of Simian Virus 40 Polypeptides VP2 and VP3 Depends on a Specific Amino Acid Sequence," <i>J. Virol.</i> (1987) 61(12): 3862-3869.	
	OO	YAMANA, K. et al., "Synthesis and Interactive Properties of an Oligonucleotide with Anthraquinone at the Sugar Fragment," <i>Bioconjugate Chem.</i> (1990) 1(5): 319-324.	
	OP	YAMANA, K. et al., "Synthesis of Oligonucleotide Derivatives with Pyrene Group at Sugar Fragment," <i>Tetrahedron Lett.</i> (1991) 32(44): 6347-6350.	
	OQ	YAOITA, Y. et al., "Xenopus laevis $\alpha$ and $\beta$ thyroid hormone receptor," <i>Proc. Natl. Acad. Sci. USA</i> (1990) 87: 7090-7094.	
	OR	YEUNG, A. et al., "Photoreactives and Thermal Properties of Psoralen Cross-Links", <i>Biochemistry</i> (1988) 27(9): 3204-3210	
	OS	YONEDA, Y. et al., "Synthetic Peptides Containing a Region of SV40 Large T-Antigen Involved in Nuclear Localization Direct the Transport of Proteins into the Nucleus," <i>Experimental Cell Research</i> (1987) 170: 439-452.	
	OT	YOUSSEFYEH, R. et al., "Synthetic Routes to 4'-Hydroxymethylnucleosides," <i>Tetrahedron Letters</i> (1977) 5: 435-438.	
	OU	ZHANG, R. et al., "Hematopoietic development of vav <sup>-/-</sup> mouse embryonic stem cells," <i>Proc. Natl. Acad. Sci. USA</i> (1994) 91: 12755-12759.	
	OV	ZHANG, Z. et al., "Uptake of N-(4'-pyridoxyl)amines and release of amines by renal cells: A model for transporter-enhanced delivery of bioactive compounds," <i>Proc. Natl. Acad. Sci. USA</i> (1991) 88: 10407-10410.	
	OW	ZON, G., "Oligonucleotide Analogues as Potential Chemotherapy Agents," <i>Pharmaceutical Research</i> (1988) 5(9): 539-549.	
✓	OX	ZON, G., "Synthesis of Backbone-Modified DNA Analogues for Biological Applications," <i>Journal of Protein Chemistry</i> (1987) 6(2): 131-145.	

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ayb	OY	ZUCKERMANN, R. et al., "Efficient methods for attachment of thiol specific probes to the 3'-ends of synthetic oligodeoxyribonucleotides," <i>Nucleic Acids Research</i> (1987) 15(13): 5305-5320.	
	OZ	ZUCKERMANN, R. N. et al., "Site-Selective Cleavage of RNA by a Hybrid Enzyme," <i>J. Am. Chem. Soc.</i> (1988) 110: 1614-1615.	
	PA	ZUKER, M., "On Finding All Suboptimal Foldings of an RNA Molecule," <i>Science</i> (1989) 244: 48-52.	

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